

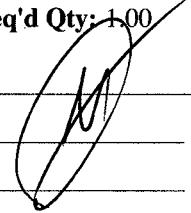
Work Order ID 163678

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163678

Page 1

Item ID: 646.4001 Accept ***N900040100*** Setup Start ***NS1***
 Revision ID: Stop ***NS2***
 Item Name: AS350 Cable Cutter System
 Start Date: 7/20/2017 Start Qty: 1.00 ***1*** Cust Item ID:
 Required Date: 7/27/2017 Req'd Qty: 1.00 ***1*** Customer:
 Reference:

Approvals: Process Plan:  Date: JUL 05 2017 Tooling: Date: Run Start ***NR1***
 QC: Date: SPC (Y/N): Date: Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
646.4000	C1								
100	Document Control	0.00							
100	DOCUMENT CONTROL								
DC	Memo	0.00							
Doc.Control -USB or Paperwork	Photocopy bluefile & type labels per PPP 646.4001								
110	Pick Kit	0.00							
110									
Packaging	Memo	0.00							
Packaging									
120	QC4- 100% Inspect kits for completeness	0.00							
120									
QC	Memo	0.03							
Quality Control									

JUL 10 2017

DAS
28
9-89

JUL 14 2017
JUL 17 2017

DAS
6
9-89

JUL 12 2017
DAS
27
9-89

DAS
28
9-89

JUL 14 2017
JUL 17 2017

Work Order ID 163678

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Item ID: 646.4001 Accept ***N900040100*** Setup Start ***NS1***
 Revision ID: Stop ***NS2***
 Item Name: AS350 Cable Cutter System
 Start Date: 7/20/2017 Start Qty: 1.00 ***1*** Cust Item ID:
 Required Date: 7/27/2017 Req'd Qty: 1.00 ***1*** Customer:
 Reference:

Approvals: Process Plan: Date: Tooling: Date: Run Start ***NR1***
 QC: Date: SPC (Y/N): Date: Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130 *130* Packaging	Identify as per dwg & Stock Location: <u>Fg101</u> Packaging	0.00						DAS 28 9-89	JUL 17 2017
	Memo	0.00							
Packaging	Identify and pack for shipping as per PPP 646.4001 Location: _____								
140 *140* QC	QC21- Final Inspection - Work Order Release	0.00						DAS 21 9-89	JUL 17 2017
Quality Control	Memo	0.10						DAS 21 9-89	JUL 17 2017

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163678

646 4001

Required Qty: 1.00

Comments: IPP REV:A 12.10.23 NEW ISSUE DD VERF:JLM
IPP REV:B 15.01.08 AS PER DWG REV.B DD VERF:JLM IPP
REV:C 16.01.07 AS PER DWG REV.C DD VERF:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
600.0129		Purchased	No			100	f	232.0000	8	8			
600 0129 VHB TAPE 75935A651 DAS 28 9-89 Location CCK096 Loc Qty 232 Loc Code m135867 16 m137700 216 DAS 27 9-89 JUL 12 2017													
600.0990		Purchased	No			100	Each	29.0000	1	1			
600 0990 Magnabond 6398 Part A Size 112 ml DAS 28 9-89 Location PKG Loc Qty 29 Loc Code M136586 1 M136862 1 M137073 6 M137495 10 M137712 11 DAS 27 9-89													

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Work Order ID: 163678

163678

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 7/20/2017

Required Date: 7/27/2017

Start Qty: 1.00

Required Qty: 1.00

600.0991 Purchased No

100 Each 30.0000 1 1

600 0991

**

Magnabond 6398 Part B Size 112 ml

DAS
27
9-89

DAS
28
9-89 exp: 02/01/2018

Location

Loc Qty

Loc Code

PKG

30

m136586

2

m136862

1

m137073

6

m137495

10

m137712

11

m134249

0

1/1/2017

600.1012 Purchased No

100 Each 18.0000 1 1

600 1012

**

Sealant PR1425B2 (#654 sem)

DAS
27
9-89

DAS
28
9-89 exp: 12/2017

Location

Loc Qty

Loc Code

cck017

18

m137371

4

m137699

14

600.1013 Purchased No

100 Each 75.0000 5 5

600 1013

**

021200-3M TAPE PRIMER 94 PRIMER 24216

DAS
27
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK096

75

m137150

25

m137500

50

646.2910 Manufactured No

100 Each 9.0000 1 1

646 2910

**

Deflector

DAS
27
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK050

9

155356

3

160183

6

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Work Order ID: 163678

163678

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 7/20/2017

Required Date: 7/27/2017

Start Qty: 1.00

Required Qty: 1.00

646.3001 Manufactured No

100 Each 5.0000 1 1

646.3001

Lower Cable Cutter Assembly

**

DAS
6
9-89

JUL 12 2017

DAS
27
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

cck023

5

162252

3

2/8/2019

161804

2

4/21/2019

646.3110 Manufactured No

100 Each 1.0000 1 1

646.3110

Channel

**

DAS
6
9-89

JUL 12 2017

DAS
27
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

cck020

1

159544

1

162252

646.3210 Manufactured No

100 Each 5.0000 1 1

646.3210

Support

**

DAS
6
9-89

JUL 12 2017

DAS
27
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

cck020

5

157802

5

646.3301 Manufactured No

100 Each 8.0000 1 1

646.3301

Upper Cutter Assembly

**

DAS
6
9-89

JUL 12 2017

DAS
27
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

cck018

8

159679

4

4/10/2018

160062

4

2/12/2019

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Work Order ID: 163678

163678

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 7/20/2017

Required Date: 7/27/2017

Start Qty: 1.00

Required Qty: 1.00

646.3711 Manufactured No 100 Each 7.0000 1 1

646 3711

Clip

**

DAS
28
9-89

Location

Loc Qty

Loc Code

cck104

7

156840

1

159504

6

DAS
27
9-89
JUL 12 2017

646.3712 Manufactured No 100 Each 33.0000 1 1

646 3712

Clip

**

DAS
28
9-89

Location

Loc Qty

Loc Code

cck104

33

156884

3

159863

30

DAS
27
9-89
JUL 12 2017

646.3713 Manufactured No 100 Each 31.0000 1 1

646 3713

Gusset

**

DAS
28
9-89

Location

Loc Qty

Loc Code

cck105

31

156776

3

159851

28

DAS
27
9-89
JUL 12 2017

646.3714 Manufactured No 100 Each 31.0000 1 1

646 3714

Gusset

**

DAS
28
9-89

Location

Loc Qty

Loc Code

cck105

31

156761

3

159846

28

DAS
27
9-89
JUL 12 2017

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Work Order ID: 163678

163678

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 7/20/2017

Required Date: 7/27/2017

Start Qty: 1.00

Required Qty: 1.00

646.3810 Manufactured No

100 Each 11.0000 2 2

646 3810

Bracket

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK106

11

160379

11

**

DAS
6
9-89

JUL 12 2017

DAS
27
9-89

646.3811 Manufactured No

100 Each 8.0000 1 1

646 3811

Radius Block

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK106

8

160090

8

**

DAS
6
9-89

JUL 12 2017

DAS
27
9-89

646.3812 Manufactured No

100 Each 24.0000 2 2

646 3812

Gusset Bracket

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK106

9

159539

9

CCK108A

15

160378

15

**

DAS
6
9-89

JUL 12 2017

DAS
27
9-89

646.3813 Manufactured No

100 Each 9.0000 1 1

646 3813

AS350 Strut Bracket

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK106

9

157787

4

159545

5

**

DAS
6
9-89

JUL 12 2017

DAS
27
9-89

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Work Order ID: 163678

163678

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 7/20/2017

Required Date: 7/27/2017

Start Qty: 1.00

Required Qty: 1.00

646.3910 Manufactured No

100 Each 36.0000 4 4

646.3910

Shim

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK106

36

159854

36

**

DAS 6 27
9-89 9-89
JUL 12 2017

646.3911 Manufactured No

100 Each 23.0000 1 1

646.3911

Shim

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK106

23

126229

2

159862

21

**

JUL 12 2017 DAS 6 27
9-89 9-89

646.3912 Manufactured No

100 Each 57.0000 4 4

646.3912

Shim

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK106

57

159357

7

159793

20

161802

10

162501

20

**

JUL 12 2017 DAS 6 27
9-89 9-89

646.3913 Manufactured No

100 Each 41.0000 1 1

646.3913

Shim

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK106

41

126060

41

**

JUL 12 2017 DAS 6 27
9-89 9-89

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Work Order ID: 163678

163678

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 7/20/2017

Required Date: 7/27/2017

Start Qty: 1.00

Required Qty: 1.00

646.9410 Manufactured No

100 Each 50.0000 1

1 JUL 12 2017

DAS

DAS
27
9-89

646 9410

Shim

**

DAS

6
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

cck011

50

140671

50

647.0112 Manufactured No

100 Each 66.0000 2

JUL 12 2017

DAS

DAS
27
9-89

647 0112

Strut Bracket

**

DAS

6
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK106

66

159844

21

161667

45

647.7703 Manufactured No

100 Each 15.0000 2

JUL 12 2017

DAS

DAS
27
9-89

647 7703

Strut Assembly

**

DAS

6
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK114

15

159680

1

160493

14

650.9201 Manufactured No

100 Each 18.0000 2

2

JUL 12 2017

DAS

DAS
27
9-89

650 9201

Eyelet Bracket Assembly

**

DAS

6
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

cck127

18

156828

8

157798

10

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Work Order ID: 163678

163678

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 7/20/2017

Required Date: 7/27/2017

Start Qty: 1.00

Required Qty: 1.00

AN3-11A Purchased No

100 Each 146.0000 10 10

DAS
6
9-89

JUL 12 2017

DAS
27
9-89

AN3-11A

Bolt

DAS
28
9-89

Location

Loc Qty

Loc Code

over003

100

m136192

100

ST349

46

153855

46

AN3-12A Purchased No

100 Each 174.0000 2 2

DAS JUL 12 2017

DAS
6
9-89

DAS
27
9-89

AN3-12A

Bolt

DAS
28
9-89

Location

Loc Qty

Loc Code

ST349

174

153854

174

AN3-13A Purchased No

100 Each 56.0000 1 1

DAS JUL 12 2017

DAS
6
9-89

DAS
27
9-89

AN3-13A

Bolt

DAS
28
9-89

Location

Loc Qty

Loc Code

GA

11

m127070

11

ST349

45

m137886

45

AN316C4R Purchased No

100 Each 47.0000 2 2

DAS
6
9-89

JUL 12 2017

DAS
27
9-89

AN316C4R

Nut, Jam

DAS
28
9-89

Location

Loc Qty

Loc Code

ST331

47

m137736

47

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Work Order ID: 163678

163678

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 7/20/2017

Required Date: 7/27/2017

Start Qty: 1.00

Required Qty: 1.00

AN3-3A Purchased No

100 Each 105.0000 4 4

AN3-3A

Bolt

**

DAS 6 27
9-89 JUL 12 2017 9-89

DAS 28
9-89

Location

Loc Qty

Loc Code

ST350

105

m137597

55

m137853

50

AN3-4A Purchased No

100 Each 208.0000 10 10

AN3-4A

Bolt

**

DAS 6 27
9-89 JUL 12 2017 9-89

DAS 28
9-89

Location

Loc Qty

Loc Code

ST350

208

m137478

208

AN3-5A Purchased No

100 Each 137.0000 2 2

AN3-5A

Bolt

**

DAS 6 27
9-89 JUL 12 2017 9-89

DAS 28
9-89

Location

Loc Qty

Loc Code

FP001

6

m136986

6

ST350

131

m136986

131

AN3-6A Purchased No

100 Each 140.0000 2 2

AN3-6A

Bolt

**

DAS 6 27
9-89 JUL 12 2017 9-89

DAS 28
9-89

Location

Loc Qty

Loc Code

ST350

140

m137412

140

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Work Order ID: 163678

163678

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 7/20/2017

Required Date: 7/27/2017

Start Qty: 1.00

Required Qty: 1.00

AN44-5A Purchased No

100 Each 26.0000 2 2

AN44-5A
Eyebolt

**

DAS 28 9-89
JUL 12 2017
DAS 27 9-89

Location

Loc Qty

Loc Code

ST339

26

m137507

11

m137710

15

DAS 28 9-89

AN4C7A Purchased No

100 Each 79.0000 2 2

AN4C7A
BOLT

**

DAS 28 9-89
JUL 12 2017
DAS 27 9-89

Location

Loc Qty

Loc Code

ST345

79

m136295

4

m137361

75

DAS 28 9-89

AN665-34R Purchased No

100 Each 28.0000 2 2

AN665-34R
Clevis

**

DAS 28 9-89
JUL 12 2017
DAS 27 9-89

Location

Loc Qty

Loc Code

ST330

28

m137710

28

DAS 28 9-89

CCR264SS3-02 Purchased No

100 Each 381.0000 36 36

CCR264SS3-02
Cherry Rivet

**

DAS 28 9-89
JUL 12 2017
DAS 27 9-89

Location

Loc Qty

Loc Code

ST321

381

M137710

381

DAS 28 9-89

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Work Order ID: 163678

163678

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 7/20/2017

Required Date: 7/27/2017

Start Qty: 1.00

Required Qty: 1.00

CR3213-5-3 Purchased No

100 Each 198.0000 14 14

CR3213-5-3
Cherry Rivet

**

DAS 6 27
9-89 JUL 12 2017 9-89

DAS 28
9-89

Location

Loc Qty

Loc Code

CCK003
m137736
ST319
m137320
m137391

100
100
98
58
40

74

MS20426AD5-7 Purchased No

100 Each 1,352.000 2 2

MS20426AD5-7
RIVET

**

DAS 6 27
9-89 JUL 12 2017 9-89

DAS 28
9-89

Location

Loc Qty

Loc Code

CCK004
153848
ST311
M133922

703
703
649
649

2

MS20470AD5-5.5 Purchased No

100 Each 614.0000 8 8

MS20470AD5-5 5
Rivet

**

DAS 6 27
9-89 JUL 12 2017 9-89

DAS 28
9-89

Location

Loc Qty

Loc Code

ST309
~~m134063~~

614
614

8

MS20470AD5-6 Purchased No

100 Each 504.0000 8 8

MS20470AD5-6
RIVET

**

DAS 6 27
9-89 JUL 12 2017 9-89

DAS 28
9-89

Location

Loc Qty

Loc Code

ST309
124089

504
504

8

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Work Order ID: 163678

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Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 7/20/2017

Required Date: 7/27/2017

Start Qty: 1.00

Required Qty: 1.00

MS20470AD5-7

Purchased

No

100

Each

335.0000

3

3

MS20470AD5-7

Rivet

DAS
28
9-89

Location

Loc Qty

Loc Code

ST309

335

123425

335

**

DAS

6

9-89

JUL 12 2017

DAS

27

9-89

MS21042-08

MS21042L08

Purchased

No

100

Each

0.0000

2

2

MS21042-08

USE MS21042L08

DAS
28
9-89

Location

Loc Qty

Loc Code

ST309

335

123425

335

**

DAS

6

9-89

JUL 12 2017

DAS

27

9-89

MS21042-3

MS21042L3

Purchased

No

100

Each

0.0000

2

2

MS21042-3

Nut

DAS
28
9-89

Location

Loc Qty

Loc Code

ST309

335

123425

335

**

DAS

6

9-89

JUL 12 2017

DAS

27

9-89

MS21042L3

Purchased

No

100

Each

1,379.000

61

61

MS21042L3

Nut

DAS
28
9-89

Location

Loc Qty

Loc Code

ST309

335

123425

335

**

DAS

6

9-89

JUL 12 2017

DAS

27

9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

FP001

79

m135945

79

GA

394

m134360

102

M136665

292

ST303

906

m137680

406

m137886

500

61

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Work Order ID: 163678

163678

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 7/20/2017

Required Date: 7/27/2017

Start Qty: 1.00

Required Qty: 1.00

MS21042L4

Purchased

No

100

Each

1,899.000

2

2

MS21042L4

Nut

**

JUL 12 2017

DAS

DAS

27

9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

FP001

10

m133363

10

GA

51

m135058

51

OVER007

1000

m137680

1000

ST303

838

m137402

400

m137544

438

MS21047-3

Purchased

No

100

Each

183.0000

18

18

MS21047-3

Nut Plate

**

JUL 12 2017

DAS

DAS

27

9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

ST301

183

m137459

83

m137710

100

MS24693-C278

Purchased

No

100

Each

100.0000

5

5

MS24693-C278

Screw

**

JUL 12 2017

DAS

DAS

27

9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

ST287

100

m137680

100

Picklist Print

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Work Order ID: 163678

163678

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 7/20/2017

Required Date: 7/27/2017

Start Qty: 1.00

Required Qty: 1.00

MS24694-S51

Purchased

No

100

Each

220.0000

5

5

MS24694-S51

Screw

DAS
28
9-89

Location

ST284

Loc Qty

220

Loc Code

m136866

220

JUL 12 2017

DAS
6
9-89

DAS
27
9-89

MS24694-S54

Purchased

No

100

Each

146.0000

2

2

MS24694-S54

SCREW

DAS
28
9-89

Location

ST284

Loc Qty

146

Loc Code

153846

46

m137951

100

JUL 12 2017

DAS
6
9-89

DAS
27
9-89

MS24694-S55

Purchased

No

100

Each

260.0000

3

3

MS24694-S55

Screw

DAS
28
9-89

Location

ST283

Loc Qty

260

Loc Code

153847

160

m137951

100

JUL 12 2017

DAS
6
9-89

DAS
27
9-89

MS27039-08-13

Purchased

No

100

Each

257.0000

2

2

MS27039-08-13

Screw

DAS
28
9-89

Location

ST278

Loc Qty

257

Loc Code

153849

257

JUL 12 2017

DAS
6
9-89

DAS
27
9-89

Wednesday, July 05, 2017 3:20:05 PM

Shop Packet Print

Page 16

Picklist Print

Wednesday, July 05, 2017 3:20:05 PM

Work Order ID: 163678

163678

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 7/20/2017

Required Date: 7/27/2017

Start Qty: 1.00

Required Qty: 1.00

MS27039-1-10

Purchased

No

100

Each

170.0000

2

2

MS27039-1-10
SCREW

**

JUL 12 2017

DAS 27 9-89

DAS 28 9-89

Location

Loc Qty

Loc Code

GA

15

m129541

15

over006

119

m137736

119

ST280

36

m137164

6

m137597

30

2

MS27039-1-12

Purchased

No

100

Each

107.0000

6

6

MS27039-1-12
Screw

**

JUL 12 2017

DAS 27 9-89

DAS 28 9-89

Location

Loc Qty

Loc Code

ST280

107

m137320

15

m137736

92

6

MS27039-1-16

Purchased

No

100

Each

147.0000

24

24

MS27039-1-16
Screw

**

JUL 12 2017

DAS 27 9-89

DAS 28 9-89

Location

Loc Qty

Loc Code

over006

50

m137061

50

ST280

97

m137320

19

m137736

78

24

DAS 27 9-89

Picklist Print

Page 18

Wednesday, July 05, 2017 3:20:05 PM

Work Order ID: 163678

163678

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 7/20/2017

Required Date: 7/27/2017

Start Qty: 1.00

Required Qty: 1.00

MS27039-1-19

Purchased

No

100

Each

283.0000

22

22

MS27039-1-19

Screw

DAS
28
9-89

Location

Loc Qty

Loc Code

GA

80

m134134

80

ST280

203

m137361

203

**

JUL 12 2017

DAS
6
9-89

DAS
27
9-89

MS27039-1-20

Purchased

No

100

Each

57.0000

2

2

MS27039-1-20

Screw

DAS
28
9-89

Location

Loc Qty

Loc Code

ST280

57

m136554

57

**

JUL 12 2017

DAS
6
9-89

DAS
27
9-89

MS27039-1-21

Purchased

No

100

Each

115.0000

4

4

MS27039-1-21

Screw

DAS
28
9-89

Location

Loc Qty

Loc Code

ST280

115

m127904

115

**

JUL 12 2017

DAS
6
9-89

DAS
27
9-89

NAS1149F0332P

Purchased

No

100

Each

2,204.000

144

144

NAS1149F0332P

Washer

DAS
28
9-89

Location

Loc Qty

Loc Code

GA

275

m133709

275

ST262

1929

m137710

1929

**

JUL 12 2017

DAS
6
9-89

DAS
27
9-89

Wednesday, July 05, 2017 3:20:05 PM

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Picklist Print

Wednesday, July 05, 2017 3:20:05 PM

Page 19

Work Order ID: 163678

163678

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 7/20/2017

Required Date: 7/27/2017

Start Qty: 1.00

Required Qty: 1.00

NAS1149F0363P

Purchased

No

100

Each

226.0000

2

2

NAS1149F0363P

WASHER

DAS
28
9-89

Location

Loc Qty

Loc Code

ST262

226

124555

26

m137544

200

**

JUL 12 2017

DAS
6
9-89

DAS
27
9-89

NAS1149F0432P

Purchased

No

100

Each

1,085.000

4

4

NAS1149F0432P

WASHER

DAS
28
9-89

Location

Loc Qty

Loc Code

ST260a

1000

M137412

1000

ST262

85

~~M137361~~

85

**

JUL 12 2017

DAS
6
9-89

DAS
27
9-89

NAS1149FN832P

Purchased

No

100

Each

2,530.000

4

4

NAS1149FN832P

Washer

DAS
28
9-89

Location

Loc Qty

Loc Code

GA

358

M135058

208

M136182

40

M136866

110

ST260a

1500

M137820

1500

ST263

672

M137412

672

**

JUL 12 2017

DAS
6
9-89

DAS
27
9-89

Wednesday, July 05, 2017 3:20:05 PM

Shop Packet Print

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APICAL INDUSTRIES, INC.
dba DART AEROSPACE

ENGINEERING CHANGE NOTICE NO.

05304

SHEET 1 OF 1

DWG NO. 646.4000

REV: C

PREPARED BY J. BECKER

DATE: 02/04/16

EFFECT ON DWG
☐ INC. ☒ UNINC.

DWG TITLE: AS350 CABLE CUTTERS KIT

APPROVED BY:

ENGR

MFG

QC

EFF. NEXT ORDER

TRANSACTION CODES (TC):
A-ADD C-CREATE
R-REVISE D-DELETE

REASON: REVISED F/N 12.

ECR: N/A

ACTION ITEM:
1. N/A

SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. 163078

JUL 05 2017

SHEET 1, BOM IS:

12	R	601.1624	8	16	LOCKNUT	MS21042L3	
F/N	TC	PART NUMBER	4006	4005	DESCRIPTION	MATERIAL	SPECIFICATION
			QTY				
DOCUMENTS EFFECTED:					CHANGE CATEGORY	DER REVIEW REQUIRED	
☐ PATTERN ☐ MDL ☐ INSTALL INSTRUCTIONS ☐ ICA ☐ FMS ☒ BOM					☐ MAJOR ☒ MINOR	☐ YES ☒ NO	

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NOTES:

1 AFTER INSTALLATION, APPLY F/N 54 A/R TO FILL GAPS AND FILLET EDGES.

2 INSTALL F/N 14 WITH F/N 52 & 53.

3 3/4 VHB ADHESIVE TAPE .025" THICK X .50" WIDE
VENDOR: MCMASTER-CARR P/N 75935A651.

4 3M TAPE PRIMER 94, APPLY TO BOTH SURFACES A/R BEFORE TAPE.
VENDOR: R.S. HUGHES P/N 021200-24216.

5 REUSE FASTENERS FROM F/N 1.

6 USE WASHERS A/R AS SHIMS TO OBTAIN BEST FITMENT.

7 AT CUSTOMERS OPTION, INSTALL F/N 65 BY MATCH DRILLING ON TO F/N 1.

8 INSTALL SHIM IF OEM PROVISIONS ARE INSTALLED ON AIRCRAFT, REMOVE SHIM LAYERS TO ACHIEVE CORRECT SIZE. MATCH DRILL HOLES. USE F/N 78 SCREW IN PLACE OF F/N 17 SCREW.

9 NEWER INSTALLATIONS ON AIRCRAFT WITH UPDATED CANOPY MAY REQUIRE DIFFERENT LENGTH SCREWS, USE F/N 62 TO REPLACE F/N 44 & F/N 26 IN PLACE OF F/N 41 WHEN NECESSARY.

UNINCORPORATED ECN(S)

05304

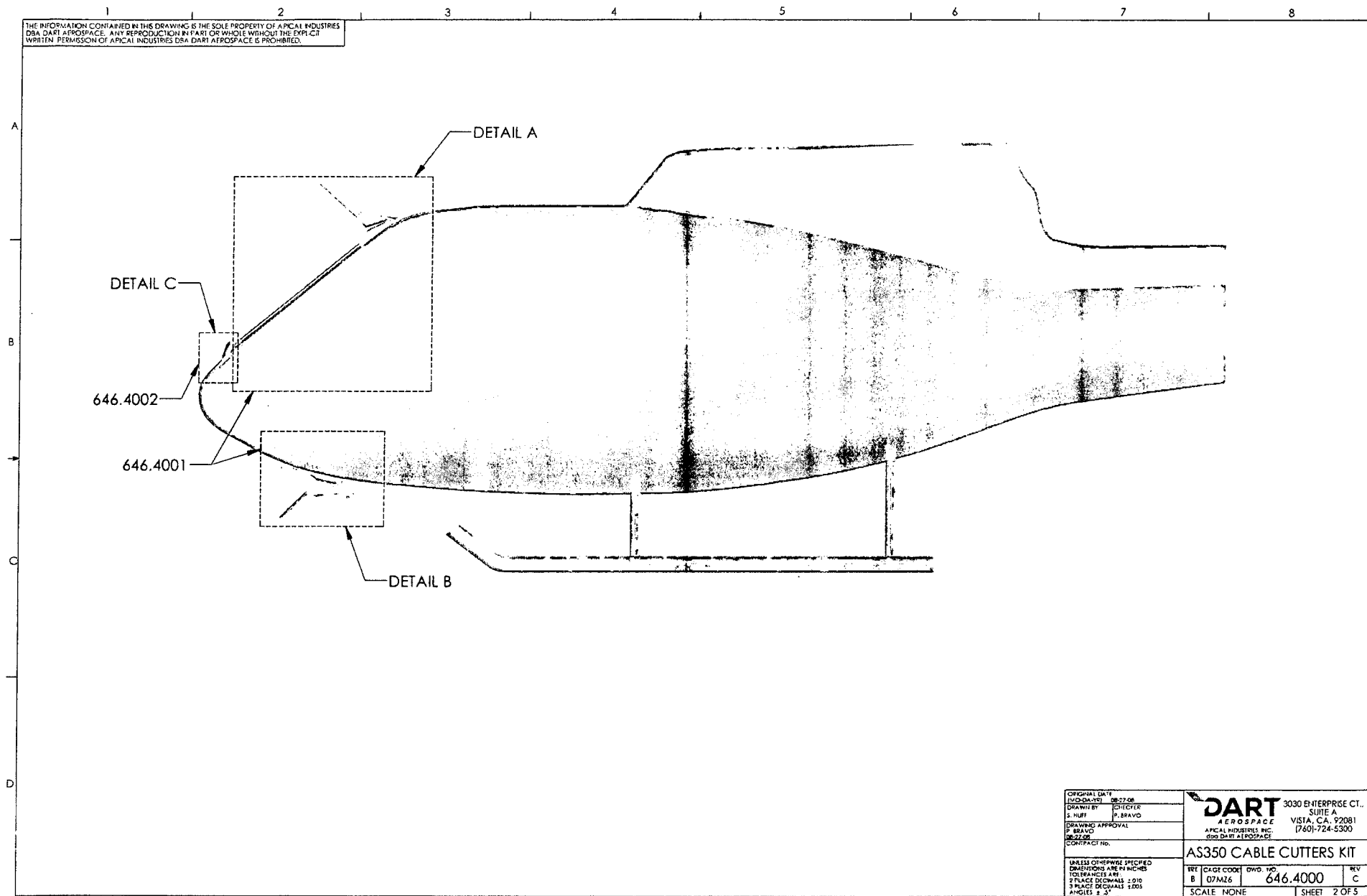
	5		5		5	78	601.3875	SCREW	UNINCORPORATED	
	1		1		1	77	646.9410	SHIM	UNINCORPORATED	
			4		4	76	601.2764	WASHER	MS1149H33P	
			2		2	75	601.2973	LOCKNUT	MS21042-08	
			2		2	74	601.2988	SCREW	MS27039-0013	
			2		2	73	601.2943	LOCKNUT	MS21042-3	
			2		2	72	601.3128	NUT	AN316C4R	
			2		2	71	601.3209	LOCKNUT	MS21042-4	
			4		4	70	601.2638	WASHER	MS1149H432P	
			2		2	69	601.2669	BOLT	AN4C7A	
			2		2	68	601.3119	CLEVIS	AN665-34R	
			2		2	67	601.3121	EYE BOLT	AN44-5A	
			2		2	66	650.9201	EYE BRACKET ASSY		
	REF	REF		REF	65	647.5701	GPS MOUNT KIT	UNINCORPORATED		
				2	64	601.3151	WASHER	MS1149F0363P		
					63	601.2911	SCREW	MS24694553		
		24		24	62	601.2637	SCREW	MS27039-1-16		
	2	2		2	61	601.2763	BOLT	AN3-12A		
		1		1	60	646.3913	SHIM			
		4		4	59	646.3912	SHIM			
		1		1	58	646.3911	SHIM			
		4		4	57	646.3910	SHIM			
		5		5	56	600.1013	PRIMER			
	8 FT		8 FT		55	600.0129	VHB TAPE			
	1	1		1	54	600.1012	SEALANT	PR-1473 CLASS B		
		1		1	53	600.0991	MAGNABOND 6395 PART B	UNINCORPORATED		
		1		1	52	600.0990	MAGNABOND 6395 PART A	UNINCORPORATED		
	6	10		10	51	601.2826	BOLT	AN3-11A		
			2		50	646.3814	WIPER BRACKET			
			2		49	601.2910	SCREW	MS27039-1-18		
	2			2	48	601.1365	SCREW	MS27039-1-10		
	2			2	47	646.3719	DOUBLER			
		2		2	46	646.3718	CUSTOM WASHER			
		1		1	45	646.3717	DOUBLER			
		22	2	22	44	601.1948	SCREW	MS27039-1-19		
		2		2	43	601.1952	SCREW	MS27039-1-20		
			4		42	601.1956	SCREW	MS27039-1-21		
4006	4005	4004	4003	4002	4001	FIND #	PART #	DESCRIPTION	MATL	SPEC.

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INCORPORATED ECN 02199, 02351, 02719 & 02765	03/08/2010	P. BRAVO
B	INCORPORATED ECN 03045, 03079 & 04731	11/04/2014	P. BRAVO
C	INCORPORATED ECN 06099	07/01/2015	P. BRAVO

		2		2	41	601.2829	SCREW	MS24694554		
		2		2	40	601.2831	RIVET	MS20472AD5-7		
		1		1	39	646.3716	GAUGE BRACKET			
		6		6	38	601.1953	SCREW	MS27039-1-12		
	2	2		2	37	646.3715	STRUT DOUBLER			
	2	2		2	36	601.2824	BOLT	AN3-5A		
12	36			36	35	601.2277	RIVET	CCF9455-3-07		
6	18			18	34	600.0795	NUTPLATE	MS21047-3		
3	3			3	33	601.2565	RIVET	MS20470AD5-7		
1	1			1	32	646.3813	STRUT BRACKET			
4	4			4	31	601.2822	BOLT	AN3-3A		
2	2			2	30	646.3812	GUSSET BRACKET			
8	8			8	29	601.2564	RIVET	MS20470AD5-6		
1	1			1	28	646.3714	GUSSET			
	1	1		1	27	646.3610	FILLER			
	3	3		3	26	601.2830	SCREW	MS24694555		
	2	2		2	25	601.2825	BOLT	AN3-6A		
	1	1		1	24	646.3811	RADIUS BLOCK			
	1	1		1	23	646.3712	CLIP			
	1	1		1	22	646.3711	CLIP			
8	8			8	21	601.2832	RIVET	MS20470AD5-5		
14	14			14	20	601.2020	RIVET	CK3213-5-3		
4	6	4	6	10	19	601.2823	BOLT	AN3-4A		
	1	1		1	18	601.2827	BOLT	AN3-13A		
	5	5		5	17	601.2912	SCREW	MS24694551		
1	1			1	16	646.3713	GUSSET			
1	1			1	15	646.3210	SUPPORT			
	1			1	14	646.3710	DOUBLER			
	1	1		1	13	646.3110	CHANNEL			
14	10	8	53	6	61	12	601.1624	LOCKNUT	MS21042L3	
16	32	18	120	16	144	11	601.1607	WASHER	MS1149H0332P	
				1	10		646.3410	LH WIPER DEFLECTOR		
				1	9		646.3411	RH WIPER DEFLECTOR		
		2		2	8		647.7703	STRUT ASSY		
		2		2	7		647.0112	STRUT BRACKET		
	1	1		1	6		646.3511	STRUT		
	1	1		1	5		646.3510	STRUT		
2	2			2	4		646.3810	BRACKET		
		1		1	3		646.2910	DEFLECTOR		
	1	1		1	2		646.3001	LOWER CUTTER ASSY		
		1		1	1		646.3301	UPPER CUTTER ASSY		
X							646.4006	LOWER CUTTER FIXED PROVISIONS		
	X						646.4005	LOWER CUTTER REMOVABLE PROVISIONS		
		X					646.4004	FIXED PROVISIONS KIT		
			X				646.4003	CABLE CUTTERS KIT WITHOUT FIXED PROVISIONS		
				X			646.4002	AS350 WIPER DEFLECTOR KIT		
					X		646.4001	AS350 CABLE CUTTERS KIT		
4006	4005	4004	4003	4002	4001	FIND #	PART #	DESCRIPTION	MATL	SPEC.

QTY		PARTS LIST	
NEXT ASSY (\$)		ORIGINAL DATE: 08-27-08 DRAWN BY: [] CHECKED BY: [] DESIGNED BY: [] APPROVED BY: [] CUPRACIT NO.: []	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES 2 PLACE DECIMALS & 0.00 3 PLACE DECIMALS & 0.005 4 PLACE DECIMALS & 0.0005		3030 ENTERPRISE CT., SUITE A VISTA, CA. 92081 (760)-724-5300 AS350 CABLE CUTTERS KIT SCALE: NONE SHEET 1 OF 5	
SRT	CAGE CODE	DWG. NO.	REV.
B	07M16	646.4000	C

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 DSA DART AEROSPACE. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE EXPLICIT
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ORIGINAL DATE (JULY 2006) 08/27/06		3030 ENTERPRISE CT., SUITE A VISTA, CA. 92081 (760)-724-5300	
DRAWN BY S. HUFF		CHECKED BY P. BRAVO	
DRAWING APPROVAL P. BRAVO		APICAL INDUSTRIES INC. 000 DART AEROSPACE	
CONTRACT NO.		AS350 CABLE CUTTERS KIT	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.010 3 PLACE DECIMALS ±.005 ANGLES ±.5°		REV B	REV C
SCALE NONE		SHEET 2 OF 5	

REF 65 7 1

REF 1

DETAIL D
TYPICAL GPS MOUNT KIT INSTALLATION

DETAIL D

2 PL 64

2 PL 7 74 75 76

2 PL 51 11 12

2 PL 68 72

42 4PL 11 8PL 12 4PL 57 A/R 58 A/R

43 2PL 11 4PL 12 2PL

44 OR 62 22 PL 9 11 44PL 12 22PL

2 PL 40

9 2 PL 26 OR 41 2 PL 12 2 PL 46 A/R 59 A/R 60

51 2 PL 11 4 PL 73 2 PL

5 8 2 PL

62 2PL 11 2PL

69 2 PL 71 2 PL 70 4 PL 66 2 PL 67 2 PL

38 6PL 11 6PL 14 1 2

48 2PL 11 2PL

37 2PL 35 12PL 34 6PL

45 35 4PL 34 2PL

47 2PL 35 4PL 34 2PL

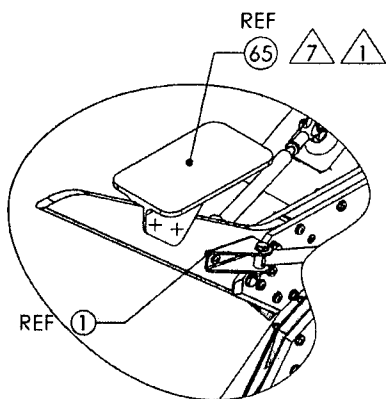
DETAIL A
SHOWN ISOMETRICALLY

REVISION DATE	08-27-08
DRAWN BY	S. HUFF
CHECKED BY	P. BRAVO
DRAWING APPROVAL	
CONTRACT NO.	AS350B

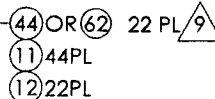
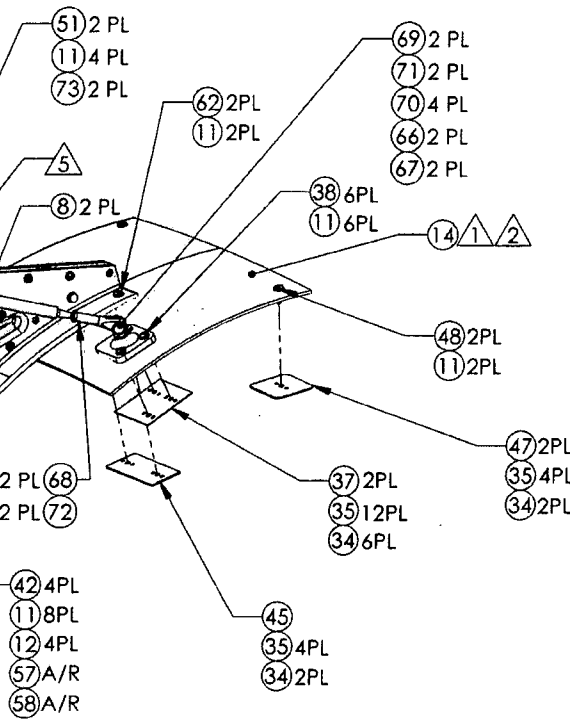
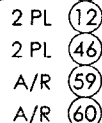
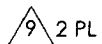
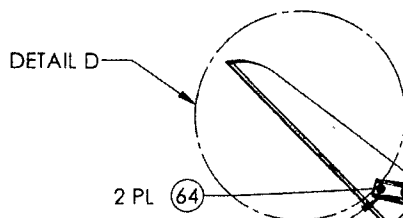
UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:

AS350B

REF (PAGE)

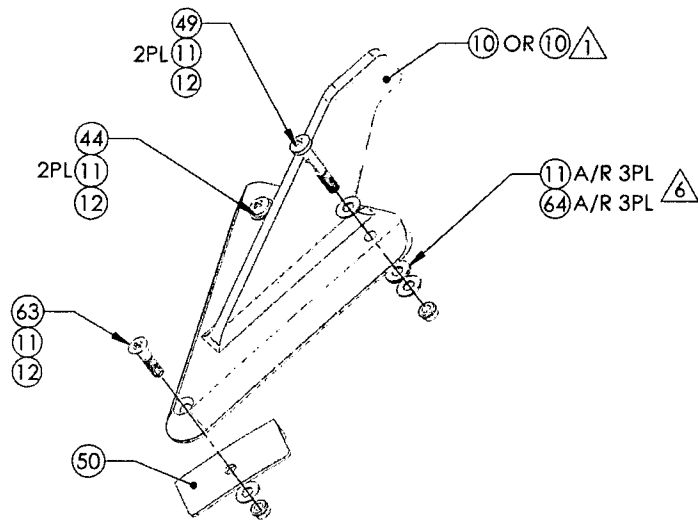


DETAIL D TYPICAL GPS MOUNT KIT INSTALLATION



ORIGINAL DATE (MM/DD-YY)	06-27-08	 3030 ENTERPRISE CT. SUITE A VISTA, CA 92081 (760)-724-5300
QUANTITY	CHEGAL	
S. HUFF	P. BRAVO	
DRAWING APPROVAL		
P. BRAVO	06-27-08	 AERIAL EQUIPMENT INC. 9500 BAY AVENUE
CONTRACT NO.		
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES 10 DECIMALS .01" 2 PLACE DECIMALS .01" 3 PLACE DECIMALS .006" ANGLES 1/2°		
SER# B 07M26		DWG NO. 646.4000
SCALE NONE		REV. C SHEET 3 OF 5

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DRA DART AEROSPACE. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE EXPRESS
WRITTEN PERMISSION OF APICAL INDUSTRIES DRA DART AEROSPACE IS PROHIBITED.



DETAIL C
LH SHOWN EXPLODED
RH OPPOSITE

ORIGINAL DATE (DD-MY-YY) 08-27-08		3030 ENTERPRISE CT., SUITE A VISTA, CA 92081 (760)-724-5300	
DRAWN BY S. HUFF	CHECKED P. BRAVO	DART AEROSPACE APICAL INDUSTRIES INC. (DRA DART AEROSPACE)	
DRAWING APPROVAL P. BRAVO 08-27-08			
CONTRACT NO.		AS350 CABLE CUTTERS KIT	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.010 3 PLACE DECIMALS ±.005 ANGLES ±.5°		REV B	CAGE CODE 07M16 DWG. NO. 646.4000 SCALE NONE
		REV C	SHEET 5 OF 5

REFERENCE ONLY

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NOTES:

1 AFTER INSTALLATION, APPLY F/N 54 A/R TO FILL GAPS AND FILLET EDGES.

2 INSTALL F/N 14 WITH F/N 52 & 53.

3 3M VHB ADHESIVE TAPE .025" THICK X .50" WIDE
VENDOR: MCMASTER-CARR P/N 75935A651.

4 3M TAPE PRIMER 94, APPLY TO BOTH SURFACES A/R BEFORE TAPE.
VENDOR: R.S. HUGHES P/N 021200-24216.

5 REUSE FASTENERS FROM F/N 1.

6 USE WASHERS A/R AS SHIMS TO OBTAIN BEST FITMENT.

7 AT CUSTOMERS OPTION, INSTALL F/N 65 BY MATCH DRILLING ON TO F/N 1.

8 INSTALL SHIM IF OEM PROVISIONS ARE INSTALLED ON AIRCRAFT. REMOVE SHIM LAYERS TO ACHIEVE CORRECT SIZE. MATCH DRILL HOLES: USE F/N 78 SCREW IN PLACE OF F/N 17 SCREW.

9 NEWER INSTALLATIONS ON AIRCRAFT WITH UPDATED CANOPY MAY REQUIRE DIFFERENT LENGTH SCREWS. USE F/N 62 TO REPLACE F/N 44 & F/N 26 IN PLACE OF F/N 41 WHEN NECESSARY.

UNINCORPORATED ECN(S)

05304

	5		5		5	78	601.3875	SCREW		PR-1425 CLASS B
	1		1		1	77	646.9410	SHIM		
			4		4	76	601.2764	WASHER		NAS11491B32P
			2		2	75	601.2973	LOCKNUT		MS27042-08
			2		2	74	601.2988	SCREW		MS27039-0813
			2		2	73	601.2943	LOCKNUT		MS21042-3
			2		2	72	601.3128	NUT		AN316C4R
			2		2	71	601.3209	LOCKNUT		MS27042L4
			4		4	70	601.2636	WASHER		NAS11490D432P
			2		2	69	601.2669	BOLT		AN4C7A
			2		2	68	601.3119	CLEVIS		AN665-34R
			2		2	67	601.3121	EYE BOLT		AN664-5A
			2		2	66	650.9201	EYE BRACKET ASSY		
	REF	REF		REF	65	647.5701	GPS MOUNT KIT			
				2	64	601.3151	WASHER			NAS11491Q335P
				2	63	601.2911	SCREW			MS2749A553
			24		24	62	601.2637	SCREW		MS27039-1-16
	2		2		2	61	601.2763	BOLT		AN3-12A
			1		1	60	646.3913	SHIM		
			4		4	59	646.3912	SHIM		
			1		1	58	646.3911	SHIM		
			4		4	57	646.3910	SHIM		
			5		5	56	600.1013	PRIMER		
			5 FT		5 FT	55	600.0129	VHB TAPE		
			1		1	54	600.1012	SEALANT		PR-1425 CLASS B
			1		1	53	600.0991	MAGNABOND 4398 PART B		
			1		1	52	600.0990	MAGNABOND 4398 PART A		
	6		10		10	51	601.2826	BOLT		A183-11A
				2		50	646.3814	WIPER BRACKET		
				2		49	601.2910	SCREW		MS27039-1-15
		2		2	48	601.1365	SCREW			MS27039-1-10
		2		2	47	646.3719	DOUBLER			
		2		2	46	646.3718	CUSTOM WASHER			
		1		1	45	646.3717	DOUBLER			
		22	2	22	44	601.1948	SCREW			MS27039-1-19
		4		2	43	601.1952	SCREW			MS27039-1-20
		4		4	42	601.1956	SCREW			MS27039-1-21
403A	403B	403A	403B	403C	403D	FIND #	PART #	DESCRIPTION	MATL	SPEC.

REV.	DESCRIPTION	DATE	APPROVED
A	INCORPORATED ECN 40319, 40321, 40322 & 40323	02/08/2010	P. BRAY
B	INCORPORATED ECN 40324, 40325 & 40326	11/04/2012	P. BRAY
C	INCORPORATED ECN 40327	01/05/2015	P. BRAY

			2	2	41	601.2829	SCREW	MS2469A554	
			2	2	40	601.2831	RIVET	MS20426A05-7	
			1	1	39	646.3716	GAUGE BRACKET		
			6	6	38	601.1953	SCREW	MS27039-1-12	
		2		2	37	646.3715	STRUT DOUBLER		
	2		2	2	36	601.2824	BOLT	AN3-5A	
12		36		36	35	601.2277	RIVET	CC99445-3-02	
6		18		18	34	600.0795	NUTPLATE	MS27047-3	
3		3		3	33	601.2565	RIVET	MS20470A05-7	
1		1		1	32	646.3813	STRUT BRACKET		
4		4		4	31	601.2822	BOLT	AN3-5A	
2		2		2	30	646.3812	GUSSET BRACKET		
8		8		8	29	601.2564	RIVET	MS20470A05-6	
1		1		1	28	646.3714	GUSSET		
		1	1	1	27	646.3610	FILLER		
		3	3	3	26	601.2830	SCREW	MS2469A555	
		2	2	2	25	601.2825	BOLT	AN3-6A	
		1	1	1	24	646.3811	RADIUS BLOCK		
		1	1	1	23	646.3712	CLIP		
		1	1	1	22	646.3711	CLIP		
8		8		8	21	601.2832	RIVET	MS20470A05-6.3	
14		14		14	20	601.2020	RIVET	CR3313-5-3	
4		6	4	6	10	601.2823	BOLT	AN3-4A	
		1	1	1	18	601.2827	BOLT	AN3-13A	
		5	5	5	17	601.2912	SCREW	MS2469A551	
1		1		1	16	646.3713	GUSSET		
1		1		1	15	646.3210	SUPPORT		
		1	1	1	14	646.3710	DOUBLER		
		1	1	1	13	646.3110	CHANNEL		
14	10	8	53	6	61	601.1624	LOCKNUT	MS27042L3	
16	32	18	120	16	144	601.1607	WASHER	NAS11491D332P	
				1	10	646.3410	LH WIPER DEFLECTOR		
				1	9	646.3411	RH WIPER DEFLECTOR		
			2	2	8	647.7703	STRUT ASSY		
			2	2	7	647.0112	STRUT BRACKET		
	1		1	1	6	646.3511	STRUT		
	1		1	1	5	646.3510	STRUT		
2		2		2	4	646.3810	BRACKET		
			1	1	3	646.2910	DEFLECTOR		
	1		1	1	2	646.3001	LOWER CUTTER ASSY		
			1	1	1	646.3301	UPPER CUTTER ASSY		
X						646.4006	LOWER CUTTER FIXED PROVISIONS		
	X					646.4005	LOWER CUTTER REMOVABLE PROVISIONS		
		X				646.4004	FIXED PROVISIONS KIT		
			X			646.4003	CABLE CUTTER KIT WITHOUT FIXED PROVISIONS		
				X		646.4002	ASS350 WIPER DEFLECTOR KIT		
				X		646.4001	ASS350 CABLE CUTTERS KIT		
4006	4005	4004	4003	4002	FIND #	PART #	DESCRIPTION	MAATL	SPEC.

Work Order ID 163678

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163678

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Item ID: 646.4001

Accept

N900040100

Setup Start

NS1

Revision ID:

Item Name: AS350 Cable Cutter System

Stop

NS2

Start Date: 7/20/2017 Start Qty: 1.00

1

Cust Item ID:

Required Date: 7/27/2017 Req'd Qty: 1.00

1

Customer:

Reference:

Approvals: Process Plan:

Date: JUL 05 2017 Tooling:

Date:

Run Start

NR1

QC:

Date: SPC (Y/N):

Date:

Stop

NR2

Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Tool ID

Tool #

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

Draw Nbr

Revision Nbr

646.4000

C1

100

Document Control

0.00

100

DOCUMENT CONTROL

DC

Memo

0.00

Doc.Control -USB or Paperwork

Photocopy bluefile & type labels per PPP 646.4001

CB

JUL 17 2017

110

Pick Kit

0.00

110

Packaging

Memo

0.00

Packaging

120

QC4- 100% Inspect kits for completeness

0.00

120

QC

Memo

0.03

Quality Control

United States Of America
Department of Transportation - Federal Aviation Administration

Supplemental Type Certificate

Number SR02180LA

This Certificate issued to Apical Industries, Inc. dba Dart Aerospace
3030 Enterprise Court, Suite A
Vista, CA 92081

certifies that the change in the type design for the following product with the limitations and conditions therefore as specified herein meets the airworthiness requirements of Part 27* of the Federal Aviation Regulations.

*Certification basis is set forth in Type Certificate Data Sheet H9EU.

Original Product Type Certificate Number: H9EU

Manufacturer: Eurocopter France

Model: AS350 C, D, D1, B, B1, B2, BA, B3

Description of Type Design Change: Installation of a Cable Cutter Kit in accordance with FAA approved Apical Master Document List, MD350-61, Revision A, dated November 25, 2008, or later FAA approved revision.

Limitations and Conditions: The installation should not be incorporated in any aircraft unless it is determined that the interrelationship between this installation and any previously approved configuration will not introduce any adverse effect upon the airworthiness of the aircraft. The approval of this modification applies to the above noted aircraft model series only. This approval requires the inspections and overhaul schedules to be performed as mandated by Apical Industries, Inc.'s Instructions for Continued Airworthiness, ICA350-61, Revision N/C, dated November 20, 2008, or later FAA accepted revision. A copy of this STC must be included in the permanent records of the modified aircraft. If the holder agrees to permit another person to use this certificate to alter the product, the holder shall give the other person written evidence of that permission.

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Date of application: May 21, 2008

Date reissued: August 7, 2014

Date of issuance: December 16, 2008

Date amended:

By direction of the Administrator


(Signature)

Haifa Haj-Eid
Supervisor, Technical and Administrative
Support Staff
Los Angeles Aircraft Certification Office

(Title)

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.

